

### Amendments to the specification

It is requested that paragraph [0022] be amended to read as follows:

[0022] A more preferred group of phosphorus-containing additives includes phosphates and phosphonates having either one or two phosphorus atoms per molecule includes:

Tricresyl phosphate, Trixylyl phosphate, Butylated triphenyl phosphate, Isopropylated triphenyl phosphate, Triphenyl phosphate, Triethyl phosphate, Tris(2-ethylhexyl) phosphate, Dimethylpropyl phosphonate, Isodecyl diphenyl phosphate, Cresyl diphenyl phosphate, tri-n-butyl phosphate, tri-isobutyl phosphate, Tributoxyethyl phosphate, Resorcinol bis(diphenyl phosphate), Bisphenol A bis(diphenyl phosphate), 2,6,7-Trioxa-1-phosphabicyclo[2.2.2] octane-4-methanol, 1-oxide, and Diethyl ethyl phosphonate,

It is requested that paragraph [0033] be amended to read as follows:

[0033] The flame retardant in Example 1 was a mixture of 49% 2-ethylhexyltetrabromobenzoate 49% an isopropylated triphenylphosphate 2% 3',4'-epoxycyclohexylmethyl 3,4-epoxycyclohexanecarboxylate also known as: 7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid sold as ERL-4221 sold by Union Carbide Corporation.

It is requested that paragraph [0037] be amended to read as follows:

[0037] The formulations of the foam samples tested include the flame retardant blends listed together with, tolylene diisocyanate.

Table 2

|                                    | Example 2   | Example 3 | Example 4 | Example 5 |
|------------------------------------|-------------|-----------|-----------|-----------|
| Polyether <i>Polyol (56.6 OH</i>   | 100.0 parts | 100.0     | 100.0     | 100.0     |
| Flame Retardant                    | 21          | 21        | 21        | 21        |
| Water                              | 6.1         | 6.1       | 6.1       | 6.1       |
| Amine Catalyst <sup>(b)</sup>      | 0.50        | 0.50      | 0.50      | 0.50      |
| Silicone Surfactant <sup>(c)</sup> | 1.0         | 1.0       | 1.0       | 1.0       |
| Tin Catalyst <sup>(d)</sup>        | 0.26        | 0.26      | 0.26      | 0.26      |
| TDI (111 Index) <sup>(e)</sup>     | 75.5        | 75.5      | 75.5      | 75.5      |
| Friability <sup>(f)</sup>          | 5           | 2         | 4         | 1         |

### Flame Retardants:

**Example 2: (prior art)** 49% 2-ethylhexyltetrabromobenzoate and 49% an isopropylated triphenylphosphate

**Example 3:** 49% 2-ethylhexyltetrabromobenzoate, 49% an isopropylated triphenylphosphate and 2% 3',4'-epoxycyclohexylmethyl 3,4-epoxycyclohexanecarboxylate also known as: 7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid sold as ERL-4221 sold by Union Carbide Corporation.

**Example 4:** 49% Pentabromodiphenyl ether and 49% an isopropylated triphenylphosphate

**Example 5 (prior art):** 49% Pentabromodiphenyl ether, 49% an isopropylated triphenylphosphate and 2% 3',4'-epoxycyclohexylmethyl 3,4-epoxycyclohexanecarboxylate also known as: 7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid sold as ERL-4221 sold by Union Carbide Corporation.

- (a) 56.6 hydroxyl number polyol prepared from polyethylene oxide having a molecular weight of 3000
- (b) Dabco 826 amine catalyst Air Products & Chemicals, 7201 Hamilton Boulevard, Allentown, PA 18195 United States
- (c) Osi L-620 silicone surfactant, a polyalkylene oxide-methyl siloxane co-polymer. Crompton Corporation, One American Lane, Greenwich, CT, 06831, United States
- (d) stannous octoate catalyst
- (e) toluene diisocyanate
- (f) The friability was measured according to the following criteria:

| <u>Rating</u> | <u>Criteria</u>  |
|---------------|--|
| 1             | Not Friable.<br>(No crumbling of foam).                                      |
| 2-3           | Slightly Friable.<br>(Crumbling of foam, 1/16" of outer layer at most).      |
| 4-5           | Moderately Friable.<br>(Crumbling of foam, 1/8" of outer layer at most).     |
| 5-6           | Friable<br>(Crumbling of foam, 1/4" of outer layer at most).                 |
| 6-7           | Very Friable<br>(Crumbling of foam, 1/2" of outer layer at most).            |
| 8-9           | Extremely Friable.<br>(Crumbling of foam, 1" of outer layer at most).        |
| 10            | Completely Friable.<br>(Crumbling of foam, anything over 1" of outer layer). |

It is requested that paragraph [0039] be amended to read as follows:

[0039] A flexible polyurethane is prepared according to Example 1 wherein the flame retardant is 2-ethylhexyltetrabromobenzoate 20.6 parts by weight and 3',4'-epoxycyclohexylmethyl 3,4-epoxycyclohexanecarboxylate also known as: 7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 0.4 parts by weight. The resulting flexible polyurethane foam is entirely usable and free from scorch.

It is requested that paragraph [0040] be amended to read as follows:

[0040] A flexible polyurethane is prepared according to Example 1 wherein the flame retardant is isopropylated triphenylphosphate 20.6 parts by weight and 3',4'-epoxycyclohexylmethyl 3,4-epoxycyclohexanecarboxylate, also known as: 7-Oxabicyclo[4.1.0]heptane-3-carboxylic acid, 0.4 parts by weight. The resulting flexible polyurethane foam is entirely usable and free from scorch.